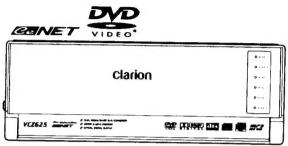


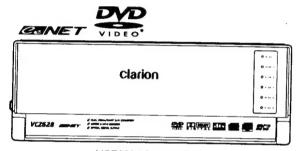
5-35-2, Hakusan, Bunkyouku, Tokyo, 112-8608 Japan Service Dept. - 50 kamitoda, Toda-shi, Saitama, 335-8511 Japan | Tel: 048-443-1111 | FAX 048-33-6996

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Service Manual



VCZ625 (PE-2446B / PE-2446K)



VCZ628 (PE-2446E)

6 Disc DVD / CD Changer

Model *VCZ625*

(PE-2446B / for U.S.A.) (PE-2446K / for Other Countries)

Model VCZ628

(PE-2446E / for Europe)

SPECIFICATIONS

DVD player section

System:

Digital Versatile Disc system with

CDDA capable

Usable discs:

DVD video disc, compact disc

Frequency response:

20Hz to 20kHz(±1dB)

Signal to noise ratio:

90dB 0.02%

Distortion:

80dB

Channel separation:

Analog audio output:

1.8Vrms

General

Power supply voltage: DC14.4V

(10.8V to 15.6V allowable)

Negative ground

Current consumption:

Less than 1.5A

source unit:

Dimensions(mm):

 $230(W) \times 83(H) \times 183(D)$ remote control unit: $54(W) \times 27.2(H) \times 155(D)$ remote control receiver: $22(W)\times41.5(H)\times13.3(D)$

Weight:

source unit:2.2kg remote control unit: 130g(including battery) remote control receiver:33g

NOTES

- This unit is a ID3 Tag compatible model. This unit supprts the title, artist and album display of the
 - ID3 Tag versions 1 and 1.1.
- Only use the magazine, the Clarion Model CAA-397.
- * We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied
- Specifications and design are subject to change without notice for further improvement.

COMPONENTS

PE-2446B-A, E-A, K-A, K-B

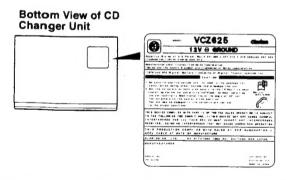
Main unit		1
Ce-NET cable(5m)	855-3416-50	1
Power cord(5m)	854-6390-01	1
Fuse(3A)	120-0030-00	1
Parts bag		
Installation nut(M5)	722-0545-00	4
Installation bolt(M5×8)	734-5008-37	4
Clamping band	335-0833-01	2
Parts bag		
Cushion rubber	345-7651-00	2
Bracket with bolt	300-9725-01	2
Bracket for installing the main uni	t	
(for vertical installation)	300-7909-00	2
(for horizontal installation)	300-7910-00	2
Batteries for remote control unit		2
Remote control unit	RCB-161-600	1
CD magazine	CAA-397-900	1
Remote control receiver	CAA-372-301	1
RCA pin cord(audio,5m))(red/white	te)855-5439-50	1
RCA pin cord(video.5m)(yellow)	855-5422-52	1
Ferrite core	060-8041-01	1

CAUTIONS

Use of controls, adjustment or performance of procedures other than those specified herein, may result in hazardous radiation exposure.

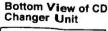
The COMPACT DISC player should not be adjusted or repaired by anyone except properly qualified service personnel.

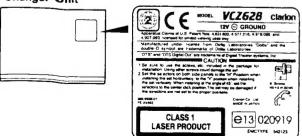
(for U.S.A. model)



This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT". To use this model properly, read this Owner's Manual carefully and kep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED service station". To prevent direct exposure to the laser beam, do not to open the enclosure.

(for European model)





■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capactors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

6. Cautions in handling flexible PWB
Before working with a soldering iron, make sure that the
iron tip temperature is around 270°C. Take care not to
apply the iron tip repeatedly(more than three times)to the
same patterns. Also take care not to apply the tip with
force.

- Turn the unit OFF during disassembly and parts replace ment. Recheck all work before you apply power to the unit.
- Cautions in checking that the optical pickup lights up.
 The laser is focused on the disc reflection surface through

the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

9. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

DVD VIDEO SYSTEM

1. Playable discs

This DVD video player can play the following discs.



When you play a CD Extra disc, only the first session will be recognized.

2. About CD Extra discs

A CD Extra disc is a disc in which a total of two sessions have been recorded.

The first session is Audio session and the second session is Data session.

Your personally-created CDs with more than 2 data sessions recorded cannot be played on this DVD video player.

About playing a CD-R/CD-RW disc
 This player can play CD-R/CD-RW discs previously recorded in music CD format or video CD format.

4. Discs that cannot be played back

This DVD video player cannot play back DVD-R, DVD-RAM, Photo CDs, etc.

Notes:

It may also not be possible to play back CDs recorded on a CD-R unit and CD-RW unit.

(Cause:disc characteristics, cracks, dust/dirt, dust/dirt on players lens, etc.)

If a CD-R or CD-RW disc that has not been finalized is played, it will take a long time to start playing. Also, it may not be possible to play depending on its recording conditions.

5. Note on region numbers

The DVD video system assigns a region number to DVD video players and DVD discs by sales area. DVD video players sold in the United States can play back DVD discs with the region number "ALL", "1" or any combination of numbers that also incorporate a "1". The DVD video region number is marked on the disc jacket as shown below.







NTSC

NTSC

NTS

6. TV color system

This DVD player plays NTSC discs and PAL discs only and cannot be used for playback of SECAM discs.

7. About MP3 playback

This unit can play back CD-R/CD-RW discs on which MP3 music data have been recorded.

8. Auto disc change

This unit auto disc changes only audio CDs. For example:

If an audio CD is loaded in the DISC 1 slot, a DVD disc in the DISC 2 slot and an audio CD in the DISC 3 solt, disc change is performed shown below.



ERROR DISPLAYS

If an error occurs, one of the following displays is displayed. Take the measures described below to eliminate the problem.

Error	Cause	Measure	
MECHA ERROR	The failure of the changer itself considered.	This is a failure of the changer's mechanism.	
DISC ERROR (ERROR 6) 1. A DVD/CD cannot be played due to scratches, etc. 2. A DVD/CD cannot be played due to the defective pick-up part. 3. The disc is placed up side down.			
WRONG REGION	Disc region code incorrect.	Use a disc with the correct resion code.	
PARENTAL The view is limited. VIOLATION		Release the view limitation or change the partal level.	

If an error display other than the ones described above appears, press the reset button.

When the reset button is pressed, frequencies of TV/radio stations, titles, etc. stored in the memory are cleared.

■ TROUBLESHOOTING

Problem	Cause	Measure	
Power does not turn on.	Fuse is blown.	Replace with a fuse 3A of the same amperage.	
(No sound is produced.)	The microprocessor has malfunctioned due to noise, etc.	Press the reset button with a thin rod. When the reset button is pressed, turn off the ACC power. Reset button	
	The setting of the CeNET/STAND ALONE select switch is not correct.	Set the switch to the correct position.	
Nothing happens when buttons are pressed.	The microprocessor has malfunctioned due to noise, etc.	Press the reset button with a thin rod. When the reset button is pressed, turn off the ACC power.	
Noise, skipping The installation selector levers are set to different positions on both sides. Set the installation tion on both sides.		Set the installation selector levers to the same position on both sides.	
	The unit installation direction and the installation selector lever positions do not match.	Set the unit installation direction and the installation selector lever positions to match each other. When installed at an angle, change the installation selector lever to a position (H,45°,V) not prone to noise or sound loss.	
4	Disc bent or badly damaged.	Compare with another disc. If bad, discard the damaged disc.	

EXPLANATION OF IC

052-5052 00	TMP95CW64F
032-3032-00	I IVIP 900 VVD4F

Mechanism controller

032-3032-00 TMF 93	Mechanism controlle
1.Terminal Description	
pin 1: A Vref	.IN: Reference voltage for the internal ADC.
pin 2 A VSS	- : Analog ground.
pin 3: A VCC	: - : Positive supply voltage for the internal analog section.
pin 4: NU	Not in use.
pin 5: NU	- : Not in use.
pin 6: Connect pin	7 .IN: Connect to pin 7.
pin 7 EJECT SW	IN: The eject key input
pin 8: NU	- Not in use.
pin 9: SYS P 1	O: System power 1 control signal output.
pin 10: NU	- : Not in use
pin 11: DSP RESET	O: Reset signal output to the DSP (C
pin 12: T SO 0	O: Test Mode Key Scan output
pin 13: T SO 1	O Test Mode Key Scan output.
pin 14: T SO 2	O: Test Mode Key Scan output.
pin 15: T SO 3	O Test Mode Key Scan output
pin 16: LDM CW	O Loading motor control output
pin 17: LDM CCW	O: Loading motor control output
pin 18: TX	: O : Serial data output.
pin 19: RX	:IN: Serial data input.
pin 20: DEC CS	O: Chip select signal output to the decoder
pin 21 DSP CS	O: Chip select signal output to the DSP
pin 22 NU	Not in use
	E.O. Mute signal output the motor driver
pin 24: NU	- : Not in use.
pin 25: VCC	- : Positive supply voltage.
pin 26: VSS	- Negative supply voltage
pin 27: X 1	: - : Crystal connection.
pin 28: X 2	- : Crystal connection.
pin 29: CON VCC pin 30: RESET	: - : Connect to VCC.
pin 31:ACC CONT	IN: Reset signal input.
pin 31: NU	:IN: ACC control signal input -: Not in use.
pin 33:LOAD/EJECT	- : LOAD/EJECT TIME.
pin 34: FG PULSE	:IN: FG pulse input.
oin 35: SPIN BRAKE	O: The brake command output to the spindle motor.
oin 36: NU	- : Not in use.
oin 37: DSP INT	:IN: The interrupt command input from the
	DSP.
oin 38: NU	- : Not in use.
oin 39: NU	- : Not in use.
oin 40: NU	: - : Not in use.
Pin 41: DEC INT	IN: The interrupt command input from the decoder.
oin 42: NU	- : Not in use.
oin 43: DEC RESET	O: The reset signal output to the decoder.
nin 44: VCC	- Positive supply voltage.
in 45: M D 0	:t/O: Data bus to MPU
in 46: M D 1	.I/O: Data bus to MPU.
in 47: M D 2	I/O: Data bus to MPU
in 48: M D 3	I/O: Data bus to MPU
in 49: M D 4	:I/O: Data bus to MPU
in 50: M D 5	.t/O: Data bus to MPU.
	I/O: Data bus to MPU
in 52: M D 7	I/O: Data bus to MPU.
in 53 : T RD	O: Test mode display control.
in 54 : T RW	O: Test mode display control.
n 55 ; T E	O: Test mode display control.
n 56 : NU	: - : Not in use.
n 57: T DB 4	:I/O: Test mode display control.
	1/O: Test mode display control.
	I/O: Test mode display control.
n 60: Y DB 7	:I/O: Test mode display control.
n 61: CON VCC	- : Connect to VCC.
n 62: VSS n 63: VCC	: - : Negative supply voltage.
	- : Positive supply voltage.
* · · · · · · · · · · · · · · · · · · ·	: - : Not in use.

pin 65: DVD/CD	O DVD/CD distinction signal output.
pin 66: LAYER	O: Layer distinction signal output.
pin 67: NU	: - : Not in use
pin 68: MG SW	.IN: Magazine switch input.
pin 69: POS SW	:IN: Datum point signal input to detect the disc number.
pin 70: D NO SW	:IN: Disk number switch input.
pin 71. 12/8	:IN: 12cm/8cm
pin 72: HOLDER	IN: Holder switch input.
pin 73: Load END	IN: Loading end switch input.
pin 74: D CW	O : Up/down motor control signal output.
pin 75: D CCW	O: Up/down motor control signal output.
pin 76: MA	O : MA
pin 77: S DA	:I/O: The serial data input/output
pin 78 SCLK	O: The clock pulse output
pin 79: A 8	O : Address signal output
pin 80 A 7	O: Address signal output.
pin 81 A 6	O : Address signal output
pin 82: A 5	O Address signal output.
pin 83: A 4	O : Address signal output.
pin 84: A 3	O : Address signal output.
pin 85: A 2	O Address signal output.
pin 86: A 1	O Address signal output.
pin 87 A 0	: O : Address signal output.
pin 88: READ	O: Read command output.
oin 89 WRITE	O: Write command output
oin 90 NU	- Not in use.
oin 91: VSS	- : Negative supply voltage.
oin 92: T SI 0	IN: Test Mode Key Scan intput
oin 93: T SI 1	:IN: Test Mode Key Scan intput.
oin 94: T SI 2	IN: Test Mode Key Scan intput.
oin 95: T SI 3	IN: Test Mode Key Scan intput.
oin 96: TM11	IN: Test Mode Select input.
oin 97: TM2I	IN: Test Mode Select input.
oin 98: LIMIT SW	:IN: Inside limit switch input.
in 99: N U	: - : Not in use.
in100: A Vref	IN: Reference voltage for the internal ADC.

052-6057-00 M30624N	1GA	-E53GP I/F Microcompute
1.Terminal Description		
		Remote controller signal input.
pin 2: NU		Not in use
pin 3: NU		: Not in use.
pin 4: NU		Not in use.
pin 5: NU	-	
		Connect to the ground.
		Connect to the ground.
pin 8: NU	-	. Not in use.
		. Not in use.
pin 10: RESET	.IN	Reset signal input.
pin 11: X OUT	0	: Crystal connection.
pin 12: GND	-	Ground
	IN	: Crystal connection
	. •	: Positive supply voltage.
pin 15: CON VCC	•	Connect to VCC.
		Backup voltage detect signal input.
pin 17: ACC MONI	IN	: ACC monitor.
	.IN	: Magazine switch input.
pin 19: Connect 27	-	: Connect to pin27
		: Not in use.
		Not in use.
pin 22: STA/Ce-NET	·IN	Stand alone/Ce-NET select signal input.
pin 23: N U	-	Not in use
pin 24: NU		Not in use.
pin 25: TEST	IN:	For the test.
		Not in use.
pin 27: Ce-NET DI	:IN:	Ce-NET Data intput.
pin 28: Ce-NET DO	0	Ce-NET Data output
oin 29: DEC DO	0 :	Decoder control signal output.
		Not in use.
oin 31: DEC CLCK O	0	Decoder control clock output.
oin 32: NU		Not in use.
oin 33; NU	:	Not in use.
oin 34: DEC DI	IN:	Decoder control signal input.
oin 35: DEC CLCK I	IN:	Decoder control clock input.
oin 36: NU	- :	Not in use.
oin 37: NU	- :	Not in use.
	- ;	Not in use.
oin 39: CONN GND	- :	Connect to the ground.
1 400 5454		Not in use.
oin 41: NU	+ 1	Not in use.
in 42: NU	- :	Not in use.
oin 43: NU	- ;	Not in use.
in 44: CONN GND	- :	Connect to the ground
1 45 444		Not in use.
in 46: NU	٠.	Not in use.
1. 47 4114		Not in use.
in 48: NU	- :	Not in use.
		Reset pulse output to FE mechanism.
in 50: DEC RESET	0 :	The reset signal output to the decoder
		Power ON signal output.
		Power ON signal output
- FO. NILL		Not in use.
- E4. ALL		Not in use.
- FF. NIII		Not in use.
		Ce-NET Audio switch control output.
		NTSC/PAL select signal input.
	IN:	System power 1 control signal input.
		Not in use.
		Positive supply voltage.
n 61: ACC CONT	0	ACC control signal output.
- CO. OND		Ground.
- 62: NIII		Not in use.
- CA: MILL		Not in use.
- 66: NII		
- CC: NIII		Not in use.
- 67: NO		Not in use.
. CO NII		Not in use.
n 60: E IECT	- :	Not in use.

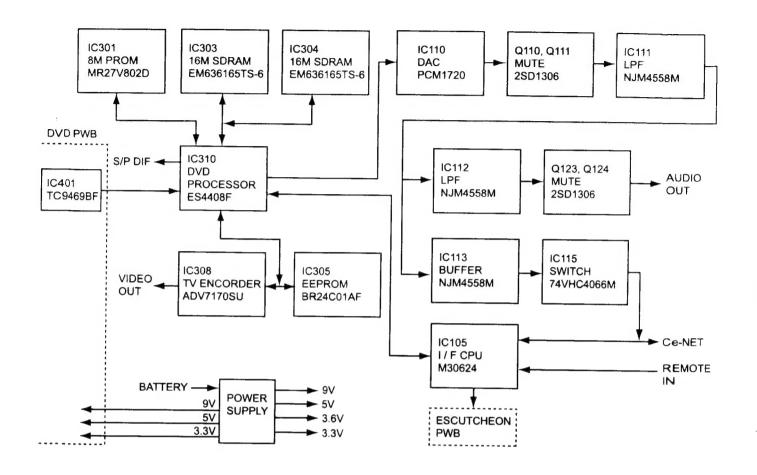
: O : Eject signal output.

pin 70 NU	- : Not in use.
pin 71: NU	-: Not in use.
pin 72: POWER SW	:IN: Power switch ON signal input.
pin 73: MG Eject SW	IN: Magazine eject switch signal input.
pin 74 NU	Not in use
pin 75: LANG	.IN: Program language select signal input.
pin 76: NU	- : Not in use.
pin 77: NU	- : Not in use.
pin 78: NU	- : Not in use.
pin 79: N U	- Not in use.
pin 80: EJ LED	O : Eject LED control signal output
pin 81 ES LED DO	 O : Serial data output to the escutcheon LED controller.
pin 82: ES LED CK	O : Clock pulse output to the escutcheon LED controller.
pin 83. ES LED LA	 O: Latch pulse output to the escutcheon LED controller.
pin 84. NU	- : Not in use
pin 85: N U	- Not in use.
pin 86: NU	- : Not in use.
pin 87: N U	: - : Not in use.
pin 88: N U	- : Not in use.
pin 89: NU	- Not in use.
pin 90. NU	-: Not in use.
pin 91: NU	1 - : Not in use.
pin 92 NU	-: Not in use.
pin 93 NU	- Not in use.
pin 94: A VSS	- : Analog ground.
pin 95: NU	- Not in use.
pin 96: Vref	- : Reference voltage.
pin 97: A VCC	: - : Positive supply voltage for the internal analog section
pin 98: NU	: - : Not in use.
pin 99: NU	: - : Not in use.
pin100: NU	: - : Not in use.

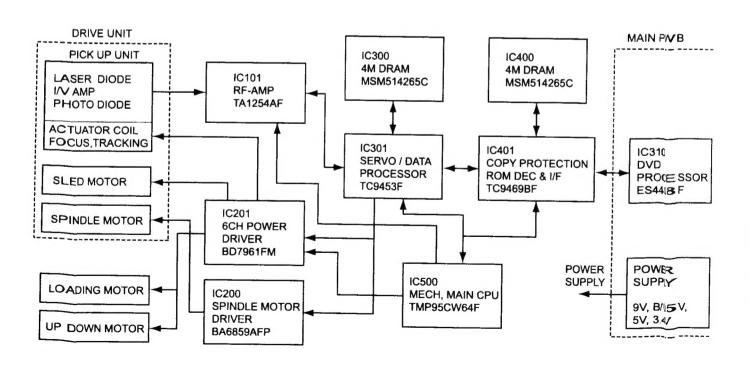
pin 69: EJECT

BLOCK DIAGRAM

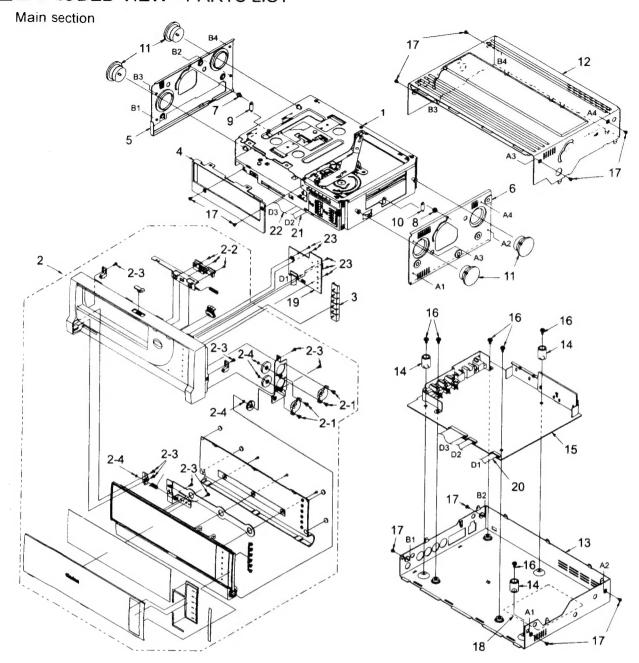
Main section



DVD changer mechanism section



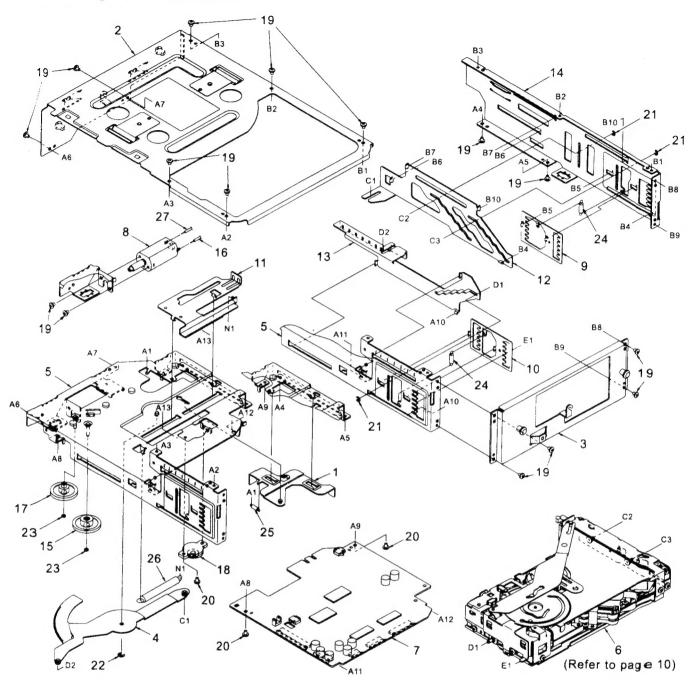
■EXPLODED VIEW · PARTS LIST



NO.	PART NO.	DESCRIPTION	Q'TY
1		DVD CHANGER MECHANISM 220000929	1
2	940-7979-06 940-7997-03	ESCUTCHEON ASSY(VCZ625) ESCUTCHEON ASSY(VCZ628)	1
2-1	716-1670-00	SCREW(M2×4)	4
2-2	716-0872-00	PAD SCREW(M1.7×5 SILVER)	3
2-3	716-1758-00	PAD SCREW	8
2-4	746-0761-00	WASHER(Φ1.6 t0.25)	4
3	335-6711-01	ILLUMI PARTS	1
4	371-5716-00	TRIM PLATE	1
5	620-1562-00	DAMPER PLATE-L	1
6	620-1563-00	DAMPER PLATE-R	1
7	622-1546-20	FL-PIN C	1
8	622-1545-20	FL-PIN R	1
9	750-3460-21	FL SPRING	1
10	750-3459-21	FL SPRING SR	1
11	629-0080-00	DAMPER GS-6	4

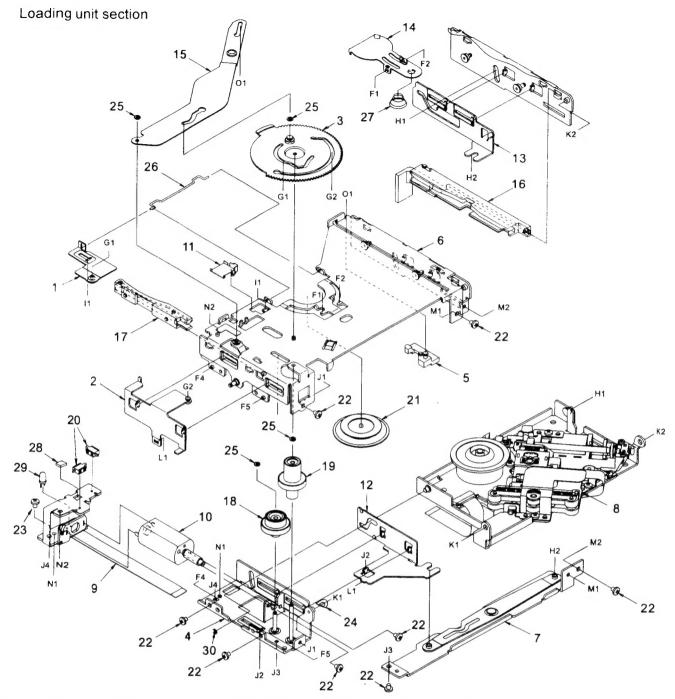
	T		
NO.	PART NO.	DESCRIPTION	Q'TY
12	310-1750-02	UPPER CASE	1
13	311-1847-02	LOWER CASE	1
14	335-6713-01	PIN	3
15	039-2123-02	MAIN PWB (WITHOUT COMPONENT)	1
16	716-0878-00	IT SCREW(M2.6×5)	6
17	716-1716-00	SCREW(M2×3)	10
18	286-9943-02 286-9936-01 286-9934-01 286-9968-00	SETPLATE(2446B) SETPLATE(2446E) SETPLATE(2446K-A) SETPLATE(2446K-B)	1
19	039-2124-00	ESCUTCHEON PWB (WITHOUT COMPONENT)	1
20	816-2580-00	FLAT WIRE(10P)	1
21	816-2578-00	FLAT WIRE(18P)	1
22	816-2579-00	FLAT WIRE(50P)	1
23	716-0872-00	PAD SCREW(M1.7×5 SILVER)	5

DVD changer mechanism section



	7		
NO.	PART NO.	DESCRIPTION	Q'TY
1	966-0590-20	MG-LO-P-ASSY	1
2	966-0631-21	UP-PLATE-ASSY	1
3	966-0632-20	REAR-PANEL-ASSY	1
4	966-0593-20	UD-GEAR-P-ASSY	1
5	966-0594-24	V-CHASSIS ASSY	1
6		LOADING UNIT	1
7	039-2121-00	DVD PWB (WITHOUT COMPONENT)	1
8	SMA-180-100	MOTOR ASSY(UP/DOWN)	1
9	620-1016-20	GAP PLATE R	1
10	620-1017-20	GAP PLATE F	1
11	620-1018-20	MG EJECT PLATE	1
12	620-1019-20	SLIDE PLATE R	1
13	620-1020-21	SLIDE PLATE F	1
14	620-1034-24	SIDE PANEL	1

NO.	PART NO.	DESCRIPTION	Q'TY
15	621-0597-20	V-GEAR A	1
16	802-4906-60	VINYL-COAT-WIRE(RED)	1
17	621-0635-20	V-HELICAL GEAR	1
18	629-0061-00	GEAR DAMPER	1
19	716-0484-00	SCREW(M2×2.5)	15
20	716-1716-00	SCREW(M2×3)	3
21	743-1500-20	E-RING	3
22	743-2000-20	E-RING	1
23	746-0761-00	WASHER	2
24	750-3462-20	GAP SPRING	2
25	750-3463-20	MG LOCK SPRING	1
26	750-3464-20	MG EJECT SPRING	1
27	800-4906-60	VINYL-COAT-WIRE(BLK)	1



NO.	PART NO.	DESCRIPTION	Q'TY
1	966-0583-20	DISC HOLD ASSY	1
2	966-0584-23	CLAMP-P-ASSY F	1
3	966-0585-22	CAM GEAR ASSY	1
4	966-0586-22	MOTOR-P-ASSY	1
5	966-0588-22	HOLDER-L-ASSY	1
6	966-0589-24	L-UPPER-P-ASSY	1
7	966-0623-23	L-LOWER-P-ASSY	1
8	HBS-519-100	DRIVE UNIT	1
9	O39-1950-20	LOADING PWB (WITHOUT COMPONENT)	1
10	SMA-188-100	MOTOR ASSY(LOADING)	1
11	620-1575-21	SWITCH PLATE	1
12	620-1007-22	CLAMP PLATE M	1
13	620-1008-24	CLAMP PLATE R	1
14	620-1009-22	CLAMPER PLATE	1
15	620-1031-21	LOADING ARM	1

		T	
NO.	PART NO.	DESCRIPTION	Q'TY
16	621-0630-22	HOLDER-G-RAIL R	1
17	621-0631-21	HOLDER-G-RAIL L	1
18	621-0703-20	L-GEAR A	1
19	621-0633-20	L-GEAR B	1
20	013-7413-50	DETECTOR SWITCH	2
21	621-0636-21	CLAMPER RING	1
22	716-0484-00	SCREW(M2×2.5)	8
23	716-1716-00	SCREW(M2×3)	1
24	745-0789-01	DRIVE WASHER	1
25	746-0761-00	WASHER	4
26	750-3461-21	DISC-H-SPRING	1
27	750-3492-22	CLAMPER SPRING	1
28	060-0252-01	PHOTO-TR	1
29	001-0563-00	LED	1
30	743-2000-20	E-RING	1

■ ELECTRICAL PARTS LIST

Main PWB(B1) section

Note) Several different parts of the same reference number are alternative parts. One of those parts is used in the set.

C17O 046-3332-78 0.033 µF	THO IT	VVD(D1) 361	Ottott			One of those parts is use	ea in the se	I.	
163-168-3-5 (1917)	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
0464-722-86 1000pf	1	163-1063-35	16V10 μF	C174	042-0635-52	6.3V47 μF	C358		
Company Comp		046-4722-58	4700pF	C175					
163-1073-35 1691/10		046-1022-58	1000pF	C176	046-1032-78	0.01 μF			
163-1073-15 63-170-107-15 63-170-107-15 63-170				C177	046-1032-78	0.01 μF	C361	1	•
1,000					046-1032-78	0.01 μF	C362		
1016 68-1032-78 0.01 μF C181 048-3332-78 0.033 μF C366 048-1011-50 100pF							C363		
1011 1046-1073-78 0.01 µF C183 1048-3332-78 0.033 µF C386 2045-1011-89 100pF							4		
C111		1	,	4			C365		
C113	l l						1		
1011 104-3332-78 0.03 μ F C187	4								
163-168-3-5 16V10 \(\rho F \) C188									
163-1083-35 169/10_0_F				1			1		
C117 163-103-278 100-006 C190 048-3332-78 0.33 μ									
163-1083-35 1691/10 F									
C1719 163-1063-35 18V1 0 μ F C301 045-9097-50 9 pF C376 045-1011-50 100 pF C170 046-3332-78 0.033 μ F C303 045-5601-50 58 pF C376 046-3332-78 0.033 μ F C121 163-1063-35 18V1 0 μ F C306 046-4712-58 470 pF C376 046-3332-78 0.033 μ F C122 163-1063-35 18V1 0 μ F C306 046-4712-58 470 pF C307 046-3332-78 0.033 μ F C402 178-1062-78 1 μ F C126 163-1093-35 18V1 0 μ F C308 046-3332-78 0.033 μ F C402 178-1062-78 1 μ F C126 163-1073-35 18V10 0 μ F C310 046-3332-78 0.033 μ F C404 178-1062-78 1 μ F C126 163-1073-35 18V10 0 μ F C310 046-3332-78 0.033 μ F C406 178-1062-78 1 μ F C126 046-1032-78 0.01 μ F C312 046-3332-78 0.033 μ F C406 178-1062-78 1 μ F C126 046-1032-78 0.01 μ F C312 046-3332-78 0.033 μ F C406 178-1062-78 1 μ F C126 046-1032-78 0.01 μ F C312 046-3332-78 0.033 μ F C406 178-1062-78 1 μ F C126 046-1032-78 0.01 μ F C312 046-3332-78 0.033 μ F C406 178-1062-78 1 μ F C406 C126 046-1032-78 0.01 μ F C312 046-3332-78 0.033 μ F C406 178-1062-78 1 μ F C406 C126 C406	C117			1			1		
163-1063-35 169-10 μF	C118	046-1032-78	0.01 μF	C301					
046-3332-78 0.033 μ C 030 045-5601-50 56pF C C C C C C C C C		163-1063-35	16V10 μF	C302	045-9097-50	9pF			
C122 163-1063-35 18V10 μF C304 046-3312-56 330pF C402 178-1062-78 1 μF					045-5601-50	56pF	C376		
C124 163-1063-35 16V10 μ F C307 046-3332-78 0.333 μ F C403 178-1052-78 1 μ F C126 163-1063-35 16V10 μ F C308 046-3332-78 0.333 μ F C404 178-1052-78 1 μ F C126 163-1063-35 16V10 μ F C310 046-3332-78 0.333 μ F C405 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C406 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C318 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 178-1052-78 1 μ F C312 046-332-78 0.033 μ F C408 046-032-78 0.01 μ F C318 046-332-78 0.033 μ F C408 046-032-78 0.01 μ F C318 046-332-78 0.033 μ F C408 046-032-78 0.01 μ F C320 046-3332-78 0.033 μ F C408 046-032-78 0.01 μ F C320 046-3332-78 0.033 μ F C408 046-032-78 0.01 μ F C321 046-3332-78 0.033 μ F C408 046-032-78 0.033 μ F C408 046-0332-78 0.033 μ F C408 046-03332-78 0.033 μ F C408 046-03332-78 0.033 μ F C408 046-03332-78 0.033 μ F C40				1			C401		
C126				1				178-1052-78	1 μ F
Cargo 045-1063-35 169/10 μ F Cargo 045-5501-50 569F Cargo Car	1		'					178-1052-78	1 μ F
C126 163-1073-35 165/100 μF C311 O46-3332-78 O33 μF C406 178-1082-78 1 μF C312 O46-1032-78 O1 μF C313 O46-3332-78 O333 μF C310 O46-332-78 O33 μF C313 O46-332-78 O33 μF C314 O46-332-78 O33 μF C315 O46-332-78 O33 μF C316 O46-332-78 O33 μF O46-332-78 O46-332-78 O46-332-78 O46-332-78 O46-332-				1			Į.	178-1052-78	1 μF
C128 046-1032-78 0.01 μF				1				178-1052-78	1 μ F
[C128] 046-1032-78 [0 01 μ F C312 046-3732-78 0.033 μ F CC7301 050-0122-61 1/16W82] \times J C130 045-1211-50 120pF C315 046-3332-78 0.033 μ F CC7303 050-0122-61 1/16W82] \times J C131 045-1211-50 120pF C315 046-3332-78 0.033 μ F CC7303 050-0122-61 1/16W82] \times J C132 045-221-50 22pF C316 046-3332-78 0.033 μ F CC7303 050-0122-61 1/16W82] \times J C134 045-1211-50 120pF C317 046-3332-78 0.033 μ F CC7304 050-0122-61 1/16W82] \times J C134 046-1032-78 0.01 μ F C319 046-3332-78 0.033 μ F CC7305 050-0122-61 1/16W82] \times J C136 046-3332-78 0.033 μ F CC7305 050-0122-61 1/16W82] \times J C136 046-1032-78 0.01 μ F C319 046-3332-78 0.033 μ F CC7305 050-0122-61 1/16W33] \times J C136 046-1032-78 0.01 μ F C320 046-3332-78 0.033 μ F CC7306 050-0122-61 1/16W33] \times J C136 046-1032-78 0.01 μ F C320 046-3332-78 0.033 μ F CC7307 050-0122-60 1/16W33] \times J C138 045-2201-50 22pF C322 046-3332-78 0.033 μ F CC7310 050-0122-60 1/16W33] \times J C136 046-2332-78 0.033 μ F CC7310 050-0122-60 1/16W33] \times J C136 046-2332-78 0.033 μ F CC7310 050-0122-60 1/16W33] \times J C140 046-3332-78 0.033 μ F CC7310 050-0122-60 1/16W33] \times J C141 046-1032-78 0.035 μ F C326 046-3332-78 0.033 μ F CC7310 050-0122-60 1/16W33] \times J C142 046-0332-78 0.035 μ F CC7310 050-0122-60 1/16W33] \times J C142 046-0332-78 0.033 μ F CC7310 050-0122-60 1/16W33] \times J C142 046-0332-78 0.033 μ F CC7310 050-0122-60 1/16W33] \times J C142 046-0332-78 0.033 μ F CC7310 050-0122-60 1/16W33] \times J C142 046-0332-78 0.033 μ F CC7310 050-0122-60 1/16W33] \times J C142 046-0332-78 0.033 μ F CC7310 050-0122-60 1/16W33] \times J C142 046-0332-78 0.033 μ F CC7310 050-0122-60 1/16W33] \times J C142 046-032-78 046-3332-78 0.033 μ F CC7310 050-0122-61 1/16W82				1					
C139 046-1032-78 0.01 μF C314 046-3332-78 0.033 μF CC7301 050-0122-81 1/16W821 × 4 J CC7302 045-1211-50 120pF C315 046-3332-78 0.033 μF CC7303 050-0122-61 1/16W821 × 4 J CC7304 050-0122-60 1/16W331 × 4	C128	046-1032-78	0.5 V 100 H 1			,			
C131 O45-1211-50 120pF C314 O46-3332-78 O.33 μ	C129	046-1032-78	0.01 µF						
C132 045-1211-50 120pF								050-0122-61	1/16/0/820 > 4 1
[C132] 045-2201-50 22pF C316 046-3332-78 0.033 μF CC7304 050-0122-61 1/16W822 × 4 J C134 046-1032-78 0.01 μF C317 046-332-78 0.033 μF CC7306 050-0122-61 1/16W822 × 4 J C136 046-1032-78 0.01 μF C321 046-332-78 0.033 μF CC7306 050-0122-60 1/16W333 × 4 J C136 046-1032-78 0.01 μF C321 046-332-78 0.033 μF CC7306 050-0122-60 1/16W333 × 4 J C137 046-1032-78 0.01 μF C321 046-332-78 0.033 μF CC7306 050-0122-60 1/16W333 × 4 J C139 046-2201-50 22pF C322 046-3332-78 0.033 μF C730 050-0122-60 1/16W333 × 4 J C139 045-2201-50 02pF C322 046-3332-78 0.033 μF C730 050-0122-60 1/16W333 × 4 J C134 046-3332-78 0.033 μF C730 050-0122-60 1/16W333 × 4 J C134 046-3332-78 0.033 μF C730 050-0122-60 1/16W333 × 4 J C134 046-3332-78 0.033 μF C730 050-0122-60 1/16W333 × 4 J C134 046-3332-78 0.033 μF C730 050-0122-60 1/16W323 × 4 J C134 046-3332-78 0.033 μF C730 050-0122-61 1/16W82 × 4 J C134 046-3332-78 0.033 μF C730 050-0122-61 1/16W82 × 4 J C134 046-3332-78 0.033 μF C730 050-0122-61 1/16W82 × 4 J C134 046-332-78 0.033 μF C730 050-0122-61 1/16W82 × 4 J C134 046-332-78 0.033 μF C730 050-0122-61 1/16W82 × 4 J C134 046-332-78 0.033 μF C730 050-0122-61 1/16W82 × 4 J C134 046-332-78 0.033 μF C730 050-0122-61 1/16W82 × 4 J C134 046-332-78 0.033 μF C730 050-0122-61 1/16W82 × 4 J C134 046-332-78 0.033 μF D106 01-260-90 RB060L-49 C147 046-1022-58 10000pF C330 046-3332-78 0.033 μF D106 01-260-90 RB060L-49 C147 046-1022-58 10000pF C330 046-3332-78 0.033 μF D106 01-260-90 CR601 01-260-	C131	045-1211-50	120pF				CCT303	050-0122-61	1/16W820×4 J
C134 046-1032-78 0.01 μF				C316	046-3332-78	0.033 μF	CCT304	050-0122-61	1/16W82Ω×4 J
C136 046-1032-78 0.01 μF C318 046-3332-78 0.033 μF C136 036-1073-35 160100 μF C320 046-3332-78 0.033 μF C136 046-2201-50 22pF C321 046-332-78 0.033 μF C137 046-1032-78 0.01 μF C329 046-3332-78 0.033 μF C138 046-3332-78 0.033 μF C139 046-3332-78 0.033 μF C139 046-3332-78 0.033 μF C139 046-3332-78 0.033 μF C130 046-3332-78 0.033 μF C130 046-3332-78 0.033 μF C131 050-0122-60 1/16W333 × 4 J C132 163-1063-35 16010 μF C326 046-3332-78 0.033 μF C131 050-0122-60 1/16W33 × 4 J C132 163-1063-35 16010 μF C326 046-3332-78 0.033 μF C131 050-0122-61 1/16W820 × 4 J C132 163-1063-35 16010 μF C326 046-3332-78 0.033 μF C131 050-0122-61 1/16W820 × 4 J C134 163-1073-15 6.30100 μF C328 046-3332-78 0.033 μF C131 050-0122-61 1/16W820 × 4 J C134 046-1022-58 1000 μF C328 046-3332-78 0.033 μF D106 001-260-90 RB060L-49 D106 001-260-90 RB060L-49 D106 001-260-90 RB060L-49 D106 001-260-90 CRG01 C149 63-2263-35 16022 μF C332 046-3332-78 0.033 μF D109 001-0347-49 MA4100L C150 163-2263-35 16022 μF C332 046-3332-78 0.033 μF D110 001-240-90 CRG01 C150 163-2263-35 16022 μF C335 046-3332-78 0.033 μF D110 001-240-90 CRG01 C150 163-2263-35 16022 μF C335 046-3332-78 0.033 μF D111 001-240-90 CRG01 C150 163-2263-35 16022 μF C335 046-3332-78 0.033 μF D110 001-0516-90 MA111 011-240-90 CRG01 C150 163-2263-35 16022 μF C335 046-3332-78 0.033 μF D110 001-0516-90 MA111 C155 163-2263-35 16022 μF C335 046-3332-78 0.033 μF D110 001-0516-90 MA111 011-240-90 CRG01 C150 C1							CCT305	050-0122-61	1/16W82Ω×4 J
C136 045-1211-50 120pF C320 046-3332-78 0.033 μF CCT308 050-0122-60 1/16W332 × 4 J C139 045-2201-50 22pF C322 168-1042-78 16V 0.1 μF CCT310 050-0122-60 1/16W332 × 4 J C139 045-2201-50 22pF C322 168-1042-78 16V 0.1 μF CCT310 050-0122-60 1/16W332 × 4 J C140 046-3332-78 0.033 μF CCT311 050-0122-60 1/16W332 × 4 J CT311 050-0122-60 1/16W322 × 4 J CT312 050-0122-61 1/16W822 × 4 J CT313 050-0122-61 1/16W822 × 4 J CT314 050-012-61 1/16W822 × 4 J CT314 050-012-61 050-012-61 050-012-61 050-012-61 050-012-61 050-012-61 050-012-61 050-012-				C318	046-3332-78		CCT306	050-0122-60	1/16W33Ω×4 J
C137				C319	046-3332-78		CCT307	050-0122-60	1/16W33Ω×4 J
C138			'	C321	046-3332-78		CCT308	050-0122-60	1/16W33 Q × 4 J
C139 045-2201-50 22pF C322 046-3332-78 0.033 μF CCT311 050-0122-61 1/16W32 0 × 4 J CCT312 050-0122-61 1/16W32 0 × 4 J CCT313 163-1063-35 16V10 μF C325 046-3332-78 0.033 μF CCT313 050-0122-61 1/16W32 0 × 4 J CCT313 163-1063-35 16V10 μF C326 046-3332-78 0.033 μF CCT313 050-0122-61 1/16W32 0 × 4 J CCT314 046-332-78 0.033 μF CCT314 050-0122-61 1/16W32 0 × 4 J CCT314 050-							CCT340	050-0122-60	1/16W33 Q × 4 J
C142							CCT310	050-0122-60	1/16VV33 Q × 4 J
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	C140	046-3332-78	0.033 μF	C324	046-3332-78		CCT312	050-0122-61	1/16W820×4 J
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							CCT313	050-0122-61	1/16W820×4J
C144 042-046-040 5.500.1F C327 168-1042-78 169 \ 0.1 \ \mu F C145 163-1073-15 6.30\ 100 \ \mu F C328 046-3332-78 0.033 \ \mu F C329 046-3332-78 0.033 \ \mu F C329 046-3332-78 0.033 \ \mu F C330						0.033 μF	CCT314	050-0122-61	I/16W82Ω×4 J
C146 O46-1032-78 0.01 μ						16V 0.1 μF	CCT315	050-0122-61 1	I/16W82Ω×4 J
C147 046-1022-58 1000pF C330 046-3332-78 0.033 μF D108 001-0504-32 HZS6A3L C148 046-1022-58 1000pF C331 046-3332-78 0.033 μF D109 001-0347-49 MA4100L C150 163-2263-35 16V22 μF C333 046-3332-78 0.033 μF D111 001-2409-90 CRG01 C151 163-2263-35 16V22 μF C334 163-1063-35 16V10 μF D111 001-2409-90 CRG01 C152 163-2263-35 16V22 μF C334 163-1063-35 16V10 μF D112 001-0504-35 HZS6C2L C153 046-1032-78 0.01 μF C336 168-32263-35 16V22 μF C337 046-3332-78 0.033 μF D115 001-0516-90 MA111 C154 163-2263-35 16V22 μF C338 046-3332-78 0.033 μF D115 001-0516-90 MA111 C155 163-2263-35 16V22 μF C339 046-3332-78 0.033 μF D117 001-0516-90 MA111 <td>C145</td> <td>046 1022 78</td> <td>5.3V100 μF</td> <td></td> <td></td> <td></td> <td>D106</td> <td>001-2620-90 F</td> <td>RB060L-40</td>	C145	046 1022 78	5.3V100 μF				D106	001-2620-90 F	RB060L-40
C148	1						D107	001-0347-49 N	/A4100L
C149 163-2263-35 16V22 μF							D108	001-0504-32	IZS6A3L
C150					046-3332-78	0.033 #F	D109	001-0347-49	MA4100L
C151	C150	163-2263-35	16V22 μF				D110	001-2409-90	PCO1
C152 163-2263-35 16V22 μF									
C154 163-2263-35 16V22 μF C336 046-3332-78 0.033 μF D115 001-0516-90 MA111 C156 163-2263-35 16V22 μF C339 046-3332-78 0.033 μF D116 001-0334-30 MA111 C157 184-4773-32 16V470 μF C340 046-3332-78 0.033 μF D117 001-0516-90 MA111 D116 001-0334-30 MA111 D116 001-0316-90 MA111 D116 001-0516-90 MA111 D116 D				C335	163-1063-35	16V10 μF	D113	001-0516-90 N	MA111
C154 163-2263-35 16V22 μF					046-3332-78	0.033 μF	D114	001-0516-90 N	MA111
C156 163-2263-35 16V22 μF C157 184-4773-32 16V470 μF C158 172-1041-11 0.1 μF C159 163-2263-35 16V22 μF C160 173-4711-10 470pFJ C161 046-1032-78 0.01 μF C162 184-1083-31 16V1000 μF C163 184-1083-31 16V1000 μF C164 046-232-78 0.022 μF C165 168-1042-78 16V 0.1 μF C166 168-1042-78 16V 0.1 μF C167 046-3332-78 0.033 μF C168 046-3332-78 0.033 μF C169 046-3332-78 0.033 μF C170 046-3332-78 0.033 μF C171 046-3332-78 0.033 μF C172 046-3332-78 0.033 μF C173 046-3332-78 0.033 μF C174 046-3332-78 0.033 μF C175 046-3332-78 0.033 μF C177 046-3332-78 0.033 μF C179 046-3332-78 0.033 μF C350 046-3332-78 0.033 μF C351 046-3332-78 0.033 μF C352 046-3332					046-3332-78	0.033 μF	D115	001-0516-90 N	/A111
C157 $184-4773-32$ $16V470 \mu F$ $C340$ $046-3332-78$ $0.033 \mu F$ $C159$ $163-2263-35$ $16V22 \mu F$ $C340$ $046-3332-78$ $0.033 \mu F$ $C160$ $173-4711-10$ $17F$ $C341$ $046-3332-78$ $046-3332-$							D116	001-0334-30 F	RL202
C158							D117	001-0516-90 N	1A111
C159 $163-2263-35$ $16V22~\mu\text{F}$ $C342$ $046-3332-78$ $0.033~\mu\text{F}$ $0.033~\mu\text{F}$ $0.01-0584-21$ $001-0584-21$ 0							D118	001-0516-90 N	IA111
C160 173-4711-10 470pFJ									
C161 046-1032-78 0.01 μF					046-3332-78	0.033 "F			
C162 $184-1083-31$ $16V1000 \mu F$ $C345$ $046-3332-78$ $0.033 \mu F$ $C163$ $184-1083-31$ $16V1000 \mu F$ $C346$ $046-3332-78$ $0.033 \mu F$ $C164$ $046-2232-78$ $0.022 \mu F$ $C347$ $045-1007-50$ $10pF$ $C349$ $046-3332-78$ $0.033 \mu F$ $C350$ $046-3332-78$ $0.033 \mu F$ $C350$ $046-3332-78$ $0.033 \mu F$ $C351$ $163-1063-35$ $16V10 \mu F$ $C352$ $163-1063-35$ $16V10 \mu F$ $C169$ $046-3332-78$ $0.033 \mu F$ $C169$ $046-3332-78$ $0.033 \mu F$ $C169$ $046-3332-78$ $0.033 \mu F$ $C170$ $046-3332-78$ $0.033 \mu F$ $C354$ $046-3332-78$ $0.033 \mu F$ $C355$ $046-3332-78$ $0.033 \mu F$ $C356$ $046-3332-78$ $0.033 \mu F$ $C357$ $046-3332-78$ $0.033 \mu F$ $C358$ $046-3332-78$ $0.033 \mu F$ $C359$ $046-3332-78$ $0.033 \mu F$ $046-3332-78$ $046-$	C161	046-1032-78	0.01 μF	C344	046-3332-78	0.033 µF			
C346 O46-3332-78 O.022 μF C347 O45-1007-50 O46-3332-78 O.033 μF O46-3332-78 O.022 μF C349 O46-3332-78 O.033 μF C350 O46-3332-78 O.033 μF C351 O46-3332-78 O.033 μF C352 O46-3332-78 O.033 μF C352 O46-3332-78 O.033 μF C352 O46-3332-78 O46-3332-				C345	046-3332-78	0.033 μF	1	001-0367-91 1	SS226
C164 046-2232-78 0.022 μF									
C349 046-3332-78 0.033 μF C350 046-3332-78 0.033 μF C350 046-3332-78 0.033 μF C351 163-1063-35 16V10 μF C352 163-1063-35 16V10 μF C352 163-1063-35 16V10 μF C353 C354 C354 C354 C354 C354 C355 C354 C355 C356 C356 C356 C356 C356 C357 C357 C357 C357 C358 C35				C347	045-1007-50 1	I0pF	FIL111	060-3103-90 N	FM839R(2G101B1
C167	C166	168 1042 78 4	6V 0.1 μF		046-3332-78		FIL112	060-3103-90 N	FM839R@G101B1
C168					163 1062 25	0.033 μF			
C169								051-7237-08 T	C7W08F-EL
C17O 046-3332-78 0.033 μF						' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	C105	057-0869-58 N	JM21U3M
C171	C170			C354	046-3332-78	0.033 µF			
C172 046-3332-78 0.033 \(\mu \) C356 046-3332-78 0.033 \(\mu \) C173 046-3332-78 0.033 \(\mu \) C108 051-6600-38 CA0008AM	C171	046-3332-78 0	.033 μF	C355)46-3332-78 C).033 μF	- 1		
(172 046 2222 70 0 022 F				C356	046-3332-78):033 µ F			
	01/3	046-3332-78 0	.033 μ F	C357	046-3332-78	0.033 μF			

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.		DESCRIPTION
IC110	051-6387-08		Q121	125-0001-91		R180	033-4721-15	1/16W 4.7kΩ
C111	051-0350-93		Q122	103-1683-00		R181	033-1031-15	1/16W 10kΩ
C112	051-0350-93		Q123	193-1306-00		R183	033-4721-15	1/16W 4.7kΩ
IC113	051-0350-93		Q124	193-1306-00		R184	033-2731-15	1/16W 27kΩ
IC114		TC7SET08F-TE85L	Q125	125-0001-91		R185		1/16W 27kΩ
C115	ł .	74VHC4066M	Q126	125-2005-91		R186	033-1031-15	
IC116		TC7SET08F-TE85L	R102		1/16W 5.6k Ω	R187	033-1031-15	1/16W 10kΩ
IC117		TC7SET08F-TE85L	R104		1/16W 100k Ω	R188	033-1031-15	1/16W 10kΩ
IC301	052-6058-00	MR27V802D-	R105	033-3301-15		R192		1/16W 820 Ω
		37TPZA00	R106		1/16W 4.7kΩ	R193	033-1031-15	
IC302	051-1443-09		R107	033-1041-15	1/16W 100kΩ	R195	033-1031-15	
		EM636165TS-6	R108	033-1041-15	1/16W 100k Ω	R196	033-1021-15	
		EM636165TS-6	R109	033-1041-15	1/16W 100kΩ	R197	033-3311-15	
		BR24C01AF-W-E2	R110	033-0000-05	1/16W 0Ω(E-A,K-B)	R198	033-3311-15	1/16W 330 O
C306	051-7256-08	SN74AHCT1G32	R111		1/16W 100k Ω	R199	033-1031-15	
		DCKR	R112	033-1031-15	1/16W 10k Ω	R200	033-1031-15	
C307	051-7276-08	SN74AHCT273PWR	R113	033-4721-15	1/16W 4.7kΩ	R201		1/16W 1.8kΩ
	051-6442-00	ADV7170SU	R114	033-2221-15	1/16W 2.2kΩ	R202		1/16W 1.8k Ω
C310	051-6441-00	ES4408FD	R115	033-4731-15	1/16W 47kΩ	R203	033-1531-15	
C312	051-7222-08	TC7SH08F-EL	R116	033-4731-15	1/16W 47kΩ	R204	033-1011-15	1/16W 1000
J101	074-1201-60	10P	R117		1/16W 100k Ω	R205	033-4701-15	
	074-1201-68		R118	033-1031-15		R206	033-4701-15	
	075-0374-00		R119	033-1031-15		R207	033-1011-15	
	074-1194-00		R120		1/16W 10kΩ	R208	033-1011-15	
	074-0884-03		R121	119-7501-15		R209		
	075-0386-00		R122	119-7501-15		R209		1/16W 100kΩ
	074-1189-00		R123	119-7501-15		R210		1/16W 100kΩ
	010-3403-62		R124	119-7501-15			033-1041-15	
1	010-2275-52		R125		1/16W 5.1kΩ	R212		1/16W 100kΩ
	010-2285-61		R126			R213	033-1031-15	
	010-2285-61		R127	119-3021-15 033-1031-15		R214	033-1011-15	
	010-2285-61					R215	033-1011-15	1/16W 100 Ω
ľ		BLM11P300SPT		033-1021-15		R220	033-1041-15	
			R129	033-1041-15	1/16W 100kΩ		033-1531-15	
		BLM11P300SPT	R130	033-0000-05	1/16W 0 Ω (K-A)	R222	033-3331-15	1/16W 33kΩ
		BLM11P300SPT		033-4731-15		R223	033-3331-15	1/16W 33kΩ
		BLM11P300SPT		033-4731-15			033-2731-15	1/16W 27kΩ
		BLM11P300SPT		033-4731-15		R225	033-2731-15	
		BLM11B102SP		119-1831-15		R226	033-1031-15	
		BLM11B102SP		033-8221-15		R227	033-1031-15	1/16W 10kΩ
		BLM11B102SP		033-3321-15		R229	119-0000-05	1/16W 0 Ω JW
		BLM11B102SP	R137	119-4321-15		R231		1/16W 0 Ω JW
237	010-2285-80	BLM11B102SP	R138	033-1041-15	1/16W 100kΩ	R233	119-0000-05	1/16W 0 Ω JW
239	010-2285-80	BLM11B102SP			1/16W 120k Ω	R235		1/16W 0Ω JW
		BLM11B102SP	R140	033-4731-15	1/16W 47kΩ	R236	119-0000-05	I/16W 0Ω JW
		BLM11B102SP	R141	033-1541-15	1/16W 150kΩ			1/16W 0Ω JW
		BLM11B102SP	R142	033-0000-05	1/16W 0Ω(K-B)		119-0000-05	I/16W 0Ω JW
		BLM11B102SP	R143	033-4721-15	1/16W 4.7kΩ	R243	119-0000-05	1/16W 0Ω JW
248	010-2285-80	BLM11B102SP		033-4731-15		R245	119-0000-05	/16W 0Ω JW
250	10-2285-80	BLM11B102SP			1/16W 100kΩ	R247	119-0000-05	1/16W 0Ω JW
301	010-3100-60	0.68 μH	R146	033-0000-05	1/16W 0 Ω	R249	119-0000-05 1	/16W 00 JW
302	10-3100-67	2.7 μH			(E-A,K-A,K-B)			/16W 0Ω JW
	10-3100-62		R147	033-1021-15			033-4721-15	
304 0	10-3100-60	0.68 μH		033-1021-15			033-4721-15 1	
305	10-3100-67	2.7 μH		033-4731-15			033-4721-1511	
	10-3100-62	1.0 µH	R157	033-4731-15	1/16W 47k O	R305	033 1051 45	/16/A/ 484 C
	75-0385-00			033-2211-15		R306	033-1051-15 1	/10VV IM 12
1 -	76-0478-62	12P		033-2211-15			119-7501-15 1	
1	25-2005-91	IN2211		033-4731-15			119-7501-15 1	
1		2SD1802FA-R.S.T		033-1011-15			119-7501-15 1	
	25-2005-91	LIN2211					119-7501-15 1	
i	25-2005-91	UN2211		033-8221-15			119-7501-15 1	
	92-2712-00	2502712		033-1031-15			033-1021-15 1	
1	25-2005-91			033-1031-15			033-1021-15 1	
,				033-1031-15			119-7501-15 1	
	25-2005-91	UNZZII		033-1231-15			033-1511-15 1	
	25-2005-91	UN2211	R168	033-1231-15	1/16W 1 2 kΩ	R316	033-0000-05 1	/16W 0 Ω
110 1	93-1306-00	2SD1306		033-3301-15		R318	033-0000-05 1	/16W 0 Ω
111 1	93-1306-00	2SD1306		033-3301-15			119-7501-15 1	
112 1	25-0001-91	UN2111	R171	033-8211-15	1/16W 820Ω	R320	119-7501-15 1	/16W 75 O
113 1	03-1683-00	2SD1683		033-8211-15			033-4721-15 1	
114 1	93-1664-00	2SD1664P,Q,R		033-8211-15		R322	033-4721-15 1	/16W 4 7k O
115 1	2 5 -2005-91	UN2211		033-3331-15		R323	033-3301-15 1	/16M/33 O
16 1	25-0001-91	UN2111		033-3301-15			033-3301-15 1	
	93 1664 00	2SD1664P,Q,R			I/16W 33kΩ		033-4701-15 1	
18 1	- 1004-UUI	20010041.02.11						

	REF No.	PART No.	DESCRIPTION
ĺ	R331	033-4721-15	1/16W 4.7kΩ
	R332	033-4701-15	1/16W 47 Ω
- 1		033-4701-15	1/16W 47 Ω
1	R334	033-4701-15	1/16W 47 Ω

REF No.	PART No.	DESCRIPTION
R335	119-0000-05	1/16W 0Ω JW
R407	116-0000-05	1/8W 0 Ω
S102	013-5112-00	SSSS223200
T101	009-0621-07	CHOKE

REF No.	PART No.	DESCRIPTION
	060-1505-50 061-3523-90	

Escutcheon PWB(B2) section

REF No.	PART No.	DESCRIPTION
C1	046-1032-78	0.01 μF
D101	001-7045-92	CL-165HR/YG-D-T
D102	001-7045-92	CL-165HR/YG-D-T
D103	001-7045-92	CL-165HR/YG-D-T
D104	001-7045-92	CL-165HR/YG-D-T
D105	001-7045-92	CL-165HR/YG-D-T
D106	001-7045-92	CL-165HR/YG-D-T
D107	001-7064-91	CL-170YG-CD-T
IC1	051-6633-08	BU2092F-E2

REF No.	PART No.	DESCRIPTION
J1	074-1201-60	10P
R1	033-3311-15	1/16W 330 Ω
R2	033-3311-15	1/16W 330 Ω
R3	033-3311-15	1/16W 330 Ω
R4	033-3311-15	1/16W 330 Ω
R5	033-3311-15	1/16W 330 Ω
R6	033-3311-15	1/16W 330 Ω
R7	033-3311-15	1/16W 330 Ω
R8	033-3311-15	1/16W 330 Ω

R9 033-3311-15 1/16W 330 Ω R10 033-3311-15 1/16W 330 Ω R11 033-3311-15 1/16W 330 Ω R12 033-3311-15 1/16W 330 Ω R13 033-3311-15 1/16W 330 Ω S1 013-6308-60 SKQYYA	REF No.	PART No.	DESCRIPTION
R10 033-3311-15 1/16W 330 Ω R11 033-3311-15 1/16W 330 Ω R12 033-3311-15 1/16W 330 Ω R13 033-3311-15 1/16W 330 Ω S1 013-6308-60 SKQYYA	R9	033-3311-15	1/16W 330 O
R12 033-3311-15 1/16W 330 Ω R13 033-3311-15 1/16W 330 Ω S1 013-6308-60 SKQYYA	R10		
R12 033-3311-15 1/16W 330 Ω R13 033-3311-15 1/16W 330 Ω S1 013-6308-60 SKQYYA	R11	033-3311-15	1/16W 330 Ω
R13 033-3311-15 1/16W 330 Ω S1 013-6308-60 SKQYYA	R12		
The second of the second	R13		
S2 012 6200 C0 CKOVVA	1 -	013-6308-60	SKQYYA
JOZ JUTS-03US-0UJSKQYYA	S2	013-6308-60	SKQYYA

DVD PWB(B3) section

אַסאַט	WB(B3) section
REF No.	
C100	046-1032-78 0.01 μF
C101	042-0397-50 16V1 μF TAN
C102	046-1032-78 0.01 μF
C103	046-1032-78 0.01 μF
C104 C105	046-1032-78 0.01 μF 046-1032-78 0.01 μF
C105	046-1032-78 0.01 μ F 046-1022-58 1000pF
C108	168-1042-78 16V 0.1 μF
C108	042-0416-52 10V10 μF TAN
C109	168-1042-78 16V 0.1 μF
C110	168-1042-78 16V 0.1 μF
C111	163-1073-15 6.3V100 μF
C112	168-1042-78 16V 0.1 μF
C113	046-4722-58 4700pF
C114	045-1007-50 10pF
C115	168-1042-78 16V 0.1 μF
C116 C117	163-1073-15 6.3V100 μF
C117	046-4722-58 4700pF 046-4722-58 4700pF
C119	168-1042-78 16V 0.1 μF
C120	046-3312-58 330 μF
C121	042-0416-52 10V10 μF TAN
C122	045-1007-50 10pF
C123	168-1042-78 16V 0.1 μF
C124	168-1042-78 16V 0.1 μF
C125	046-1022-58 1000pF
C126 C127	046-1022-58 1000pF
C127	042-0397-54 10V2.2 μF TAN 168-1042-78 16V 0.1 μF
C128	042-0416-52 10V10 μF TAN
C130	168-1042-78 16V 0.1 μF
C131	042-0416-52 10V10 μF TAN
C200	168-1042-78 16V 0.1 μF
C201	168-1042-78 16V 0.1 μF
C202	168-1042-78 16V 0.1 μF
C203	168-1042-78 16V 0.1 µF
C204 C205	168-1042-78 16V 0.1 μF
C205	168-1042-78 16V 0.1 μF
C206	168-1042-78 16V 0.1 μF 168-1042-78 16V 0.1 μF
C208	168-1042-78 16V 0.1 μF 168-1042-78 16V 0.1 μF
C209	168-1042-78 16V 0.1 μF
C210	168-1042-78 16V 0.1 μF
C300	168-1042-78 16V 0.1 μF
C301	168-1042-78 16V 0.1 µF
C302	168-1042-78 16V 0.1 μF
C303	046-6822-58 6800pF
C304	046-3322-58 3300pF
C305	042-0416-52 10V10 μF TAN
C306 C307	045-1011-50 100pF
C307	168-1042-78 16V 0.1 μF
C309	046-4712-58 470pF 046-4722-58 4700pF
0000	1040-4/22-30 4/00pr

1	REF No.	PART No.	DESCRIPTION
1	C310	046-4722-58	
	C311	046-3312-58	
П	C312	046-3312-58	3 330 µ F
L	C313	046-3312-58	
	C314	046-3312-58	3 330 μF
l	C315	168-1545-56	0.15 μF
П	C316	168-1042-78	3 16V 0.1 μF
П	C317	168-1042-78	3 16V 0.1 μF
П	C318	168-1042-78	16V 0.1 μF
П	C319	168-1042-78	3 16V 0.1 μF
П	C320	168-1042-78	16V 0.1 μF
П	C321	168-1042-78	16V 0.1 μF
П	C322	168-1042-78	16V 0.1 μF
П	C323 C324	169 1042-78	16V 0.1 μF 16V 0.1 μF
П	C325	168-1042-78	16V 0.1 μΕ
П	C326		10V10 μF TAN
П	C327	168-1042-78	
П	C328	046-2222-58	
Ш	C329	046-1022-58	
IJ	C330	046-1532-78	
	C400	168-1042-78	16V 0.1 uF
П	C401	168-1042-78	16V 0.1 µF
H	C402	168-1042-78	16V 0.1 µF
	C403	045-1007-50	10pF
	C500	163-1073-35	16V100 μF
۱	C501	163-1073-15	6.3V100 µF
ļ	C502	163-1073-15	6.3V100 μF
- 1	C503	163-1073-15	6.3V100 μF
	C504	163-1073-15	6.3V100 μF
	C505	163-1073-15	6.3V100 μF
	C506	046-1032-78	0.01 μF
1	C507	168-1042-78	16V 0.1 μF
	C508	168-1042-78	16V 0.1 μF
ı	C509 CCT500	168-1042-78	16V 0.1 μF
	CCT500	050-0122-00	1/16W33Ω×4 J 1/16W33Ω×4 J
-1			1/16W33Ω×4 J
			1/16W33Ω×4 J
		050-0122-57	1/16W100Ω×4 J
	D100	001-0367-91	
h	D101	001-0367-91	
1		001-0356-96	
I	D500	001-0367-91	
þ	C100	051-3014-90	
		051-5705-00	
		051-6058-08	
	C201	051-6060-08	BD7961FM-E2
H	C300	051-9315-00	MSM514265C-
			5OTS-K
			TC9453F
۱	C400		MSM514265C-
			5OTS-K
ᆫ			

REF N	PART No.	DESCRIPTION
IC401 IC500 IC501 IC502 J100 J101 J200 J201 J500 J501 J502 J503 J504 L100 L101 L500 L101 R100 R101 R100 R101 R102 R103 R104 R105 R106 R107 R108 R109 R110 R111 R200 R201 R202 R203 R204 R206 R207 R208 R209 R210 R211 R212 R213 R300 R301 R302 R303 R304 R305 R306 R307 R308	051-6352-00 052-5052-00 051-5806-00	TC9469BF TMP95CW64F GP1S94 BR24C02F-W-E2 30P PLUG 8P 18P 18P 18P 50P PLUG 12P 7P 10 μ Η 10 μ Η 13.3 μ Η 22SB1188PQR 22SB1188PQR 1/16W 33kΩ 1/16W 18Ω 1/16W 10Ω

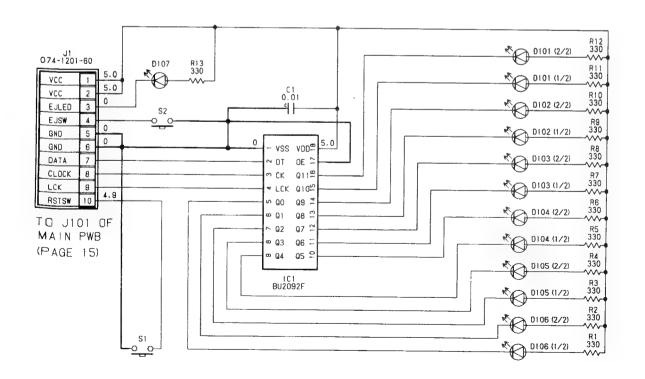
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R309	033-1021-15	1/16W 1kΩ	R337	033-2211-15	1/16W 220 Ω	R517	033-8201-15	1/16W 82 Q
R310	033-1031-15	1/16W 10kΩ	R338	033-1521-15	1/16W 1.5kΩ	R518	033-1031-15	
R311	033-1031-15	1/16W 10kΩ	R339	033-4741-15	1/16W 470k Ω	R519	033-4731-15	
R312	033-1041-15	1/16W 100kΩ	R340	033-4721-15	1/16W 4.7kΩ	R520	033-4731-15]
R313	033-5621-15	1/16W 5.6kΩ	R341	033-1051-15	1/16W 1M Ω	R521	033-4731-15	1
R314	033-1031-15	1/16W 10kΩ	R400	033-1051-15	1/16W 1M Ω	R522	033-4731-15	
R315	033-1031-15	1/16W 10kΩ	R401	033-1521-15	1/16W 1.5k Ω	R523	033-4731-15	
R316	033-1031-15	1/16W 10kΩ	R402	033-4731-15	1/16W 47kΩ	R524		1/16W 4.7k Q
R317	033-1031-15	1/16W 10kΩ	R403	033-0000-05	1/16W 0 Ω	R525	033-1031-15	
R318	033-4731-15	1/16W 47kΩ	R404	033-1031-15	1/16W 10kΩ	R526	033-3311-15	
R319	033-4731-15	1/16W 47kΩ	R500	033-1041-15	1/16W 100k Ω		033-3311-15	
R320	033-5621-15	1/16W 5.6kΩ		033-4731-15		R528	033-2711-15	
R321	033-1031-15	1/16W 10kΩ		033-1051-15		R529	033-1021-15	
R322	033-1031-15	1/16W 10kΩ	R503	033-1021-15	1/16W 1kΩ	1	033-1021-15	
R323	033-1031-15	1/16W 10kΩ	R504	033-1041-15	1/16W 100kΩ			1/16W 100kΩ
R324	033-1031-15	1/16W 10kΩ	R505	033-4721-15	1/16W 4.7kΩ		033-4731-15	
R325	033-1031-15	1/16W 10kΩ	R506	033-4721-15	1/16W 4.7kΩ	4	033-4731-15	
R326	033-1031-15	1/16W 10kΩ	R507	033-2201-15	1/16W 22 Ω	R534	033-4731-15	
R327	033-2211-15	1/16W 220 Ω	R508	033-8201-15	1/16W 82 Ω	S500	013-7404-50	
R328	033-4731-15	1/16W 47kΩ	R509	033-8201-15	1/16W 82 Ω		1	SWITCH
R329	033-3321-15	1/16W 3.3kΩ	R510	033-1031-15	1/16W 10kΩ	S501	013-7404-50	
R330	033-1031-15	1/16W 10kΩ	R511	033-1031-15	1/16W 10kΩ			SWITCH
R331	033-1531-15	1/16W 15k Ω	R512	033-4731-15	1/16W 47kΩ	X300	i i	CSTCW2257MX03
R333	033-5631-15	1/16W 56k Ω	R513	033-8201-15	1/16W 82 Ω			CSTCW5000MX01
R334	033-1031-15	1/16W 10k Ω	R514	033-1031-15	1/16W 10kΩ			CSACW2500MX01
R335	033-1031-15	1/16W 10kΩ	R515	033-2201-15	1/16W 22 Ω		320 00	
R336	033-2211-15	1/16W 220 Ω	1 i	033-1031-15	I			

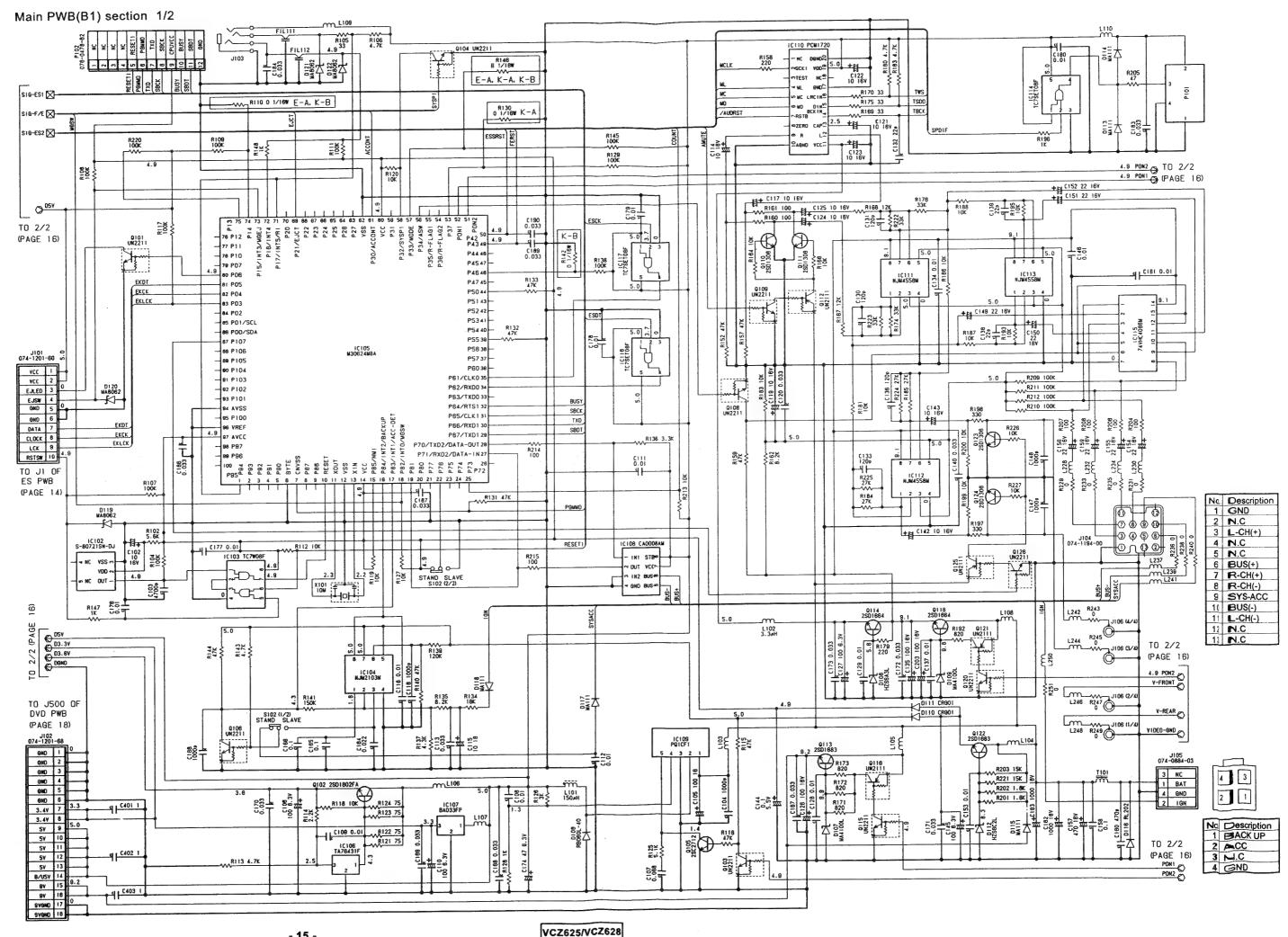
Loading PWB(B4) section

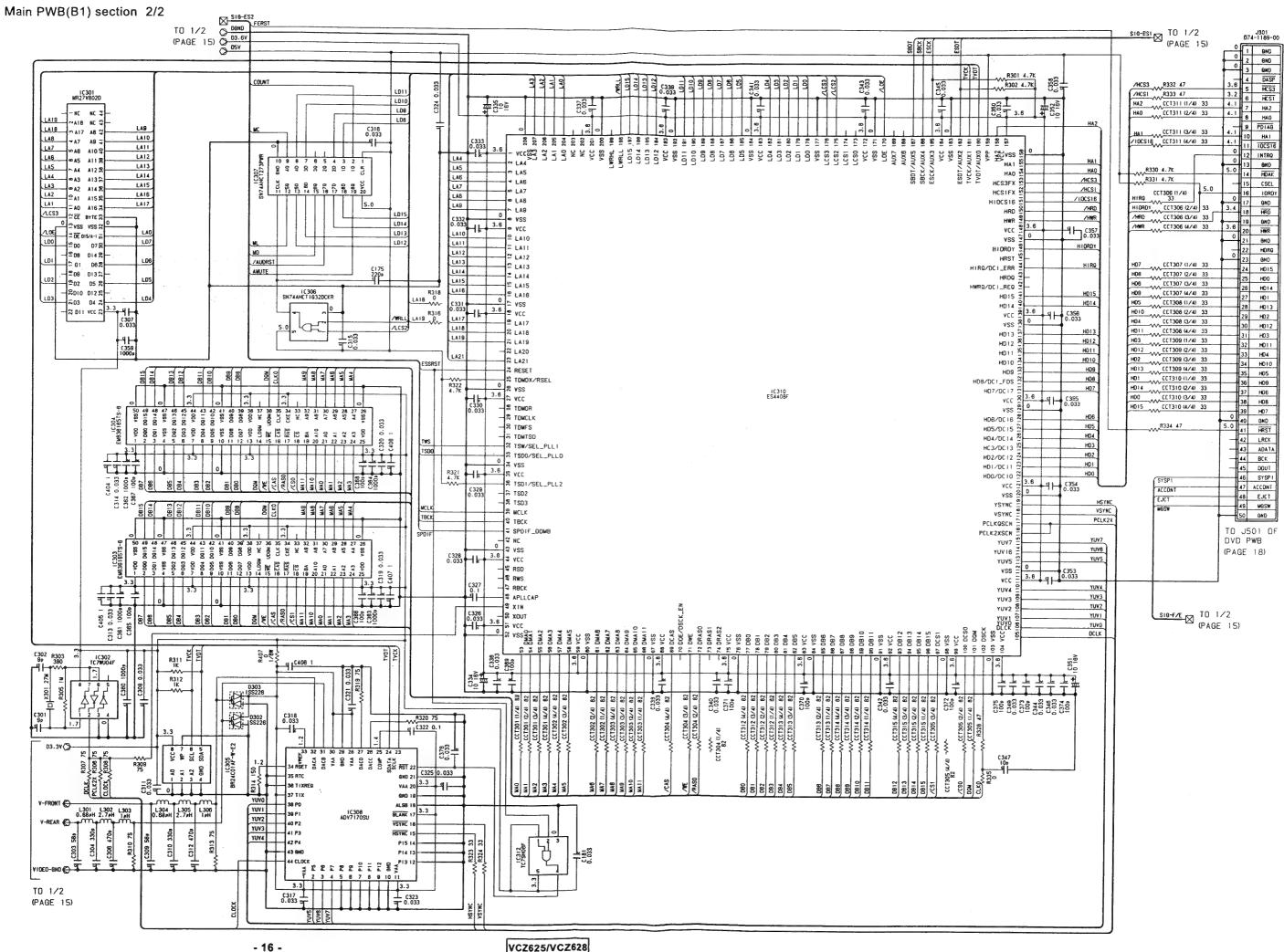
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F	001-0563-00		S501	013-7413-50	SPVG12	S502	013-7413-50	SPVG12
Q501	060-0252-01	PT4850F				Н		

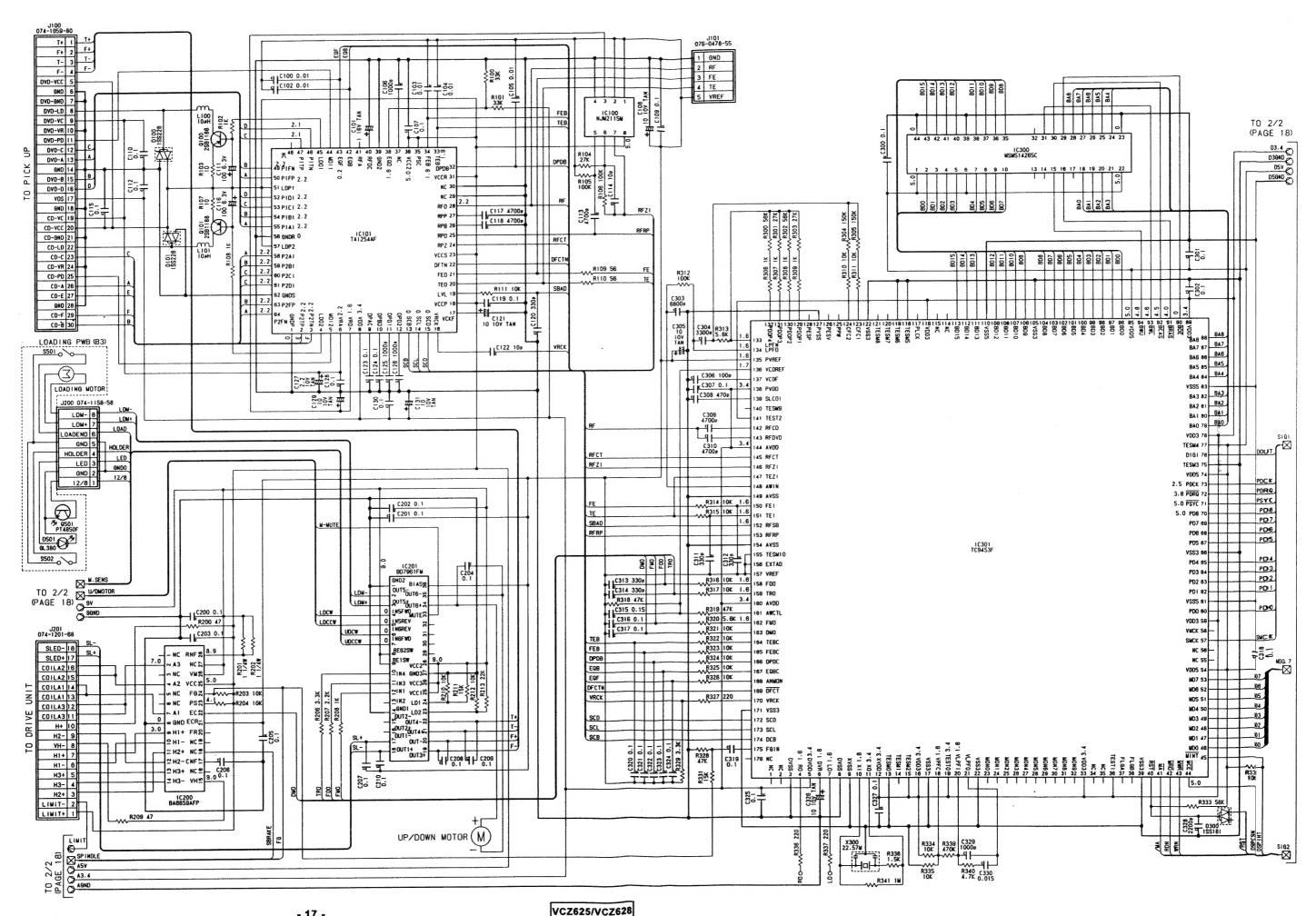
CIRCUIT DIAGRAM

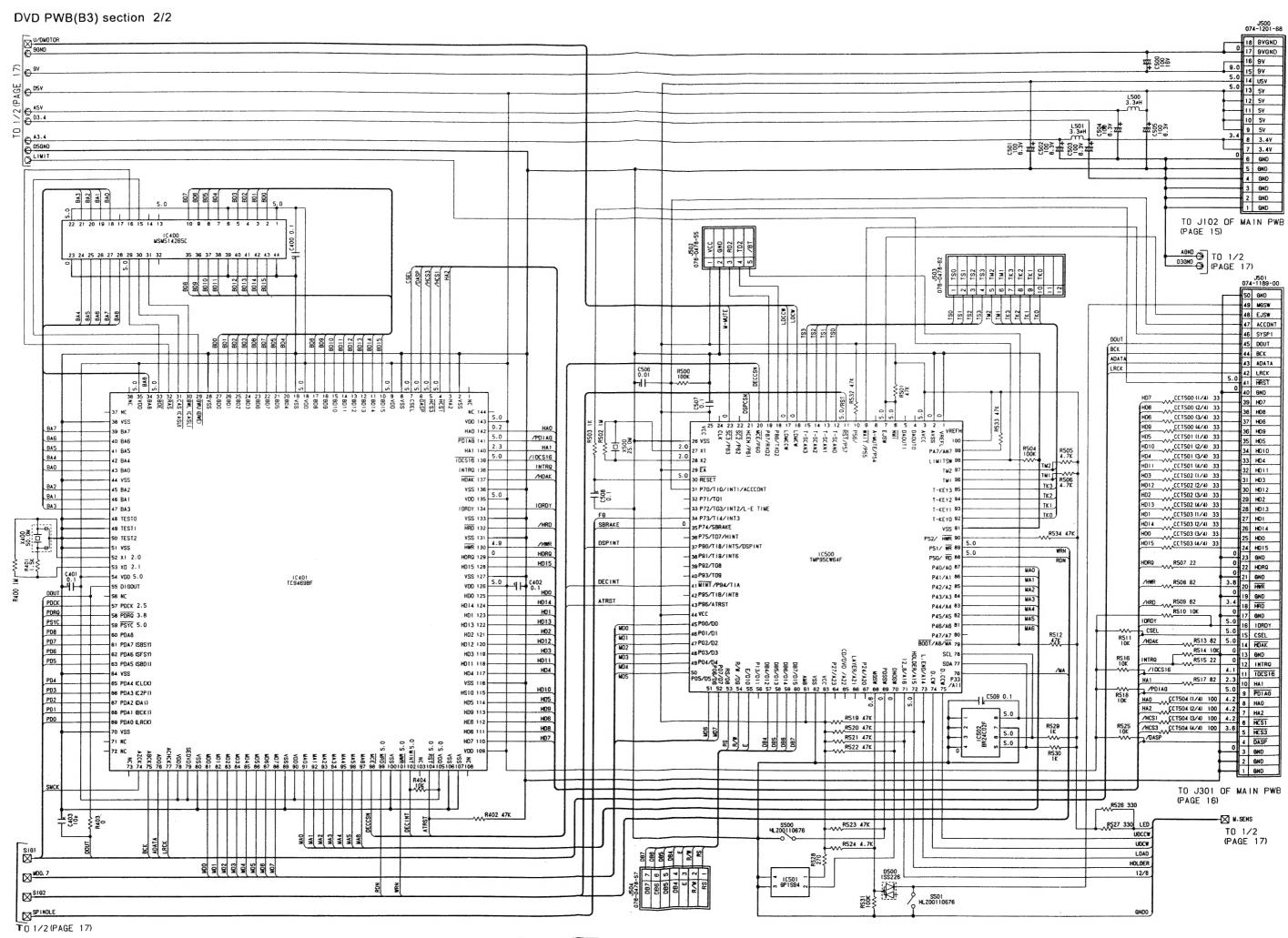
Escutcheon PWB section(B2)











PRINTED WIRING BOARD

Main PWB(B1) / Escutcheon PWB(B2) section

